1690.

Apollo Anglicanus,

THE ENGLISH APOLLO:

Assisting

All Persons in the Right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful,

A twofold Kalendar, *viz. Julian* or *English*, *Gregorian* or *Forein* Computations, more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon, and also her Southing, Exactly calculated for every day. Of general use for most men.

Being Second after *Bissextile* or *Leap-Year*.

To which is added the Moons application to the fixed Stars: With the Calculation of the Eclipses: also Rules and Tables for the measuring of Timber; with many other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees, 42 Minutes. Exactly fitting all the middle Counties of *England*, and without sensible Error the whole Kingdom.

By RICHARD SAUNDER,

Student in the Physical and Mathematical Sciences.

LONDON: Printed by M. CLARK, for the Company of STATIONERS. 1689.

The Julian account used in *Engl.* 1690. Stile used beyond Sea

	15	The Golden Number.	19
	G	The Dominical Letters.	E
	12	The Epact.	19
March	2	Shrove-Sunday.	February
May	29	Ascension-Day.	May
June	8	Whit-Sunday.	May
November	20	Advent-Sunday.	December

A Table of the four Terms, and their Returns, &c.

Hilary-Term begins *January* 23. ends *February* 12.

	Essoin-days.		*Except.*	*Ret. Brev.*		*Appear.*	
Octab. Hillar.	Jan.	20	January 21	Jan.	22	Jan.	23
Quind. Hillar.	Jan.	27	January 28	Jan.	29	Jan.	30
Craftin. Purif.	Feb.	3	February 4	Febr.	5	Febr.	6
Octab. Purif.	Feb.	9	February 11	Febr.	12	Febr.	13

Easter-Term begins *May* 7. ends *June* 2.

Quind. Pasch.	May	5	May 6	May	6	May	7
Tres Pasch.	May	11	May 12	May	13	May	14
Mens. Pasch.	May	19	May 20	May	20	May	21
Quinq. Pasch.	May	26	May 27	May	27	May	28
Craft. Ascens.	May	31	May 31	May	31	June	1

Trinity-Term begins *June* 20. ends *July* 9.

Craft. Trin.	June	16	June 20	June	18	June	20
Octab. Trin.	June	23	June 17	June	25	June	24
Quind. Trin.	June	30	July 1	July	1	July	2
Tres Trin.	July	7	June 8	July	8	July	9

Michaelmas-Term begins *Octob.* 23. ends *Novemb.* 28.

Tres Mich.	Octob.	19	Octob. 20	Octob.	22	October	23
Mens. Mich.	Octob.	27	Octob. 28	Octob.	26	October	27
Craft. Anim.	Nov.	3	Novemb. 4	Novemb.		Novemb.	6
Craft. Mart.	Nov.	12	Novemb. 13	Novemb.	14	Novemb.	15
Octab. Mart.	Nov.	18	Novemb. 19	Novemb.	20	Novemb.	21
Quind. Mart.	Nov.	25	Novemb. 26	Novem.	27	Novemb.	28

A Table of the KINGS and QUEENS of England since the Conquest.

Kings and Queens names.		Born Anno	Began to reign.	Reigned Y.	M.	Since their Reign ended.	Buried
William	1	1029	1066, Oct. 14	20	11	603, Septem. 9	Caen N
William	2	1056	1087, Sep. 9	12	11	590, August 2	Winches
Henry	1	1068	1100, Aug. 2	35	4	555, Decem. 1	Reding
Stephen		1105	1135, Dec. 1	18	11	536, Octob. 12	Feversh.
The Saxon Line restor'd.							
Henry	2	1132	1154, Oct. 12	35	9	501, July 6	Fountev
Richard	1	1155	1189, July 6	9	9	491, April 6	Fountev
John		1165	1199, April 6	17	6	474, Octob. 19	Worceste
Henry	3	1207	1216, Oct. 19	56	1	418, Nov. 16	Westmin
Edward	1	1239	1272, No. 16	34	8	383, July 7	Westmin
Edward	2	1283	1307, July 7	19	6	364, Jan. 25	Glocester
Edward	3	1312	1326, Jan. 25	51	5	313, June 21	Westmin.
Richard	2	1366	1377, Jun. 21	22	3	291, Sept. 29	Westmin.
The Line of Lancaster.							
Henry	4	1367	1399, Sep. 29	13	6	277, Mar. 20	Canterb.
Henry	5	1384	1412, Mar. 20	9	5	268, Aug. 31	Westmin.
Henry	6	1421	1422, Aug. 31	38	6	230, Mar. 4	Windsor
The Line of York.							
Edward	4	1442	1460, Mar. 4	23	1	207, April 9	Winches
Edward	5	1471	1483, Apr. 9	0	1	207, June 18	Not kno.
Richard	3	1448	1483, Jun. 18	2	2	205, Aug. 22	Leicest.
The Families United.							
Henry	7	1455	1485, Aug. 22	23	8	181, April 2	Westmin.
Henry	8	1491	1509, Apr. 22	37	10	143, Jan. 28	Windsor
Edward	6	1537	1547, Jan. 28	6	5	137, Jun. 6	Westmin.
Qu. Mary		1518	1553, Jun. 6	5	4	132, Nov. 17	Westmin.
Qu. Elizab.		1533	1558, No. 17	44	4	87, March 24	Westmin.
The Union of the two Kingdoms.							
James	1	1566	1602, Ma. 24	22	0	65, March 27	Westmin
Charles	1	1600	1625, Ma. 27	23	11	41, Janu. 30	Windsor
Charles	2	1630	1648, Jan. 30	36	0	5, Feb. uar. 6	Westmin.
James	2	1632	1684, Feb. 6	4	0	[illegible]	
William & Mary		1650 1662	1688, Feb. 13	Whom God grant long to live.			

You here may see a Race of Monarchs great,
Each for a time did fill the Royal Seat,
Then left the Throne: You see it fill'd again;
Pray God that these long time o'er us may reign;
Their Subjects multiply, their Foes decrease,
Their Kingdoms have Prosperity and Peace. *Omnis potestas à Deo*

A Table shewing the hour and minute of the Moons coming to the South every day the first six Months of this Year, 1690.

Days	Jan.		Febr.		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	12	43	1	A.41	12	27	1	A.52	2	A.47	4	A.26
2	1	A.31	2	28	1	A.16	2	52	3	50	5	16
3	2	16	3	19	2	6	3	52	4	50	6	3
4	3	1	4	4	3	0	4	54	5	44	6	50
5	3	47	4	55	3	52	5	55	6	34	7	36
6	4	33	5	50	4	51	6	52	7	22	8	18
7	5	20	6	52	5	53	7	45	8	8	9	0
8	6	10	7	53	6	52	8	34	8	54	9	47
9	7	4	8	54	7	52	9	20	9	40	10	34
10	8	3	9	54	8	48	10	5	10	24	11	22
11	9	4	10	50	9	39	10	50	11	8	12	10
12	10	7	11	40	10	23	11	35	11	53	0	M.10
13	11	9	12	30	11	15	12	20	12	40	1	0
14	12	9	0	M.30	12	3	0	M.20	0	M.40	1	47
15	0	M. 9	1	18	0	M. 3	1	8	1	28	2	32
16	1	3	2	5	0	50	1	56	2	16	3	17
17	1	53	2	50	1	38	2	45	3	6	4	2
18	2	41	3	36	2	24	3	34	4	56	4	47
19	3	28	4	20	3	10	4	23	4	44	5	32
20	4	11	5	6	3	57	5	12	5	30	6	18
21	4	54	5	52	4	45	6	2	6	15	7	10
22	5	38	6	41	5	34	6	50	7	0	8	4
23	6	24	7	33	6	22	7	36	7	44	9	0
24	7	11	8	25	7	10	8	24	8	34	10	2
25	8	0	9	14	8	00	9	10	9	30	11	5
26	8	48	10	2	8	48	9	56	10	28	12	8
27	9	38	10	50	9	37	10	50	11	25	1	A. 9
28	10	26	11	38	10	26	11	44	12	26	2	9
29	11	16			11	15	12	42	1	A.26	3	2
30	12	6			12	4	1	A.44	2	28	3	52
31	12	54			12	56			3	30		

The Moons Southing for every day of the last Six Months of this Year 1690.

Days	July H.	M.	August H.	M.	Septemb. H.	M.	October H.	M.	Novemb. H.	M.	Decemb. H.	M.
1	4	A. 38	5	A. 35	6	A. 51	7	A. 15	8	A. 15	8	A. 9
2	5	23	6	24	7	41	8	4	9	0	9	0
3	6	8	7	12	8	28	8	50	8	44	9	55
4	6	52	8	00	9	15	9	34	10	30	10	54
5	7	38	8	48	10	2	10	20	11	24	11	56
6	8	26	9	36	10	48	11	6	12	23	12	58
7	9	14	10	24	11	34	11	54	0	M. 23	0	M. 58
8	10	3	11	12	12	20	12	48	1	24	2	0
9	10	53	12	00	0	M. 20	0	M. 48	2	26	3	0
10	11	40	0	M. 00	1	5	1	42	3	28	4	0
11	12	27	0	46	1	54	2	41	4	30	4	52
12	0	M. 27	1	32	2	46	3	41	5	26	5	40
13	1	13	2	18	3	40	4	40	6	18	6	26
14	2	00	3	4	4	38	5	38	7	6	7	0
15	2	48	3	51	5	38	6	36	7	52	7	51
16	3	34	4	44	6	38	7	32	8	37	8	40
17	4	20	5	40	7	38	8	22	9	22	9	26
18	5	4	6	36	8	36	9	10	10	8	10	16
19	5	50	7	34	9	30	9	56	10	55	11	5
20	6	42	8	33	10	20	10	45	11	44	11	55
21	7	38	9	33	11	10	11	32	12	33	12	44
22	8	38	10	30	11	58	12	18	1	A. 22	1	A. 30
23	9	42	11	27	12	46	1	A. 8	2	11	2	14
24	10	48	12	23	1	A. 34	1	58	3	0	2	57
25	11	48	1	A. 13	2	24	2	46	3	46	3	41
26	12	46	2	00	3	15	3	36	4	30	4	23
27	1	A. 38	2	47	4	00	4	24	5	14	5	6
28	2	28	3	33	4	48	5	12	5	57	5	51
29	3	16	4	22	5	36	6	0	6	40	6	38
30	4	2	5	11	6	26	6	45	7	24	7	26
31	4	48	6	00			7	30			8	20

To find the time of High-water in most Coasts of England.

FIrst seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for there the South and North Moons make a High-water: But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many Hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

A Tide-Table, with the Names of the Havens.

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Ramkins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Bristol, Lanion, Foulness,	6	45
Milford, Bridgwater, North-coast,	7	30
Portland, Peterport, Hartflew,	8	51
Dover, Yarmouth, Harwich, Dublin,	10	30
Calliee, Rye, Winchelsey, Calshot,	11	15

Example.

The 19. of *June* this Year it is required to know the time of High-water at *London*: By the Tab. of the Moons Southing, over against the 19. of *June*, I find the Moon South at 5 Hours 32 Minutes in the Morning: Then in the preceding Tide-Table against *London*, I find 3 Hours 0 Minutes, which added to 5 Hours 32 Minutes, makes 8 Hours 32 Minutes, being the time of High-water at *London* the 19. day of *June* in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compass more at the New and Full of the Moon, than at the First and Last Quarters: as also the Latitude of the Moon and Winds, may alter it an hour sooner or later.

Directions for the subsequent Diary or Almanack.

IN the first Column to the left hand, on the left-hand Page, you have the Numerical Figures of the days of the Month.

In the second Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Asterisms and Constellations may be easily known to an ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Rising and Setting of the Moon, with respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets, with the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar, and Saints days.

In the fifth Column you have Poetical Stories of the fixed Stars and Constellations, shewing the reason why such various Figures are fancied to be placed in Heaven.

The sixth, seventh, and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the Sun.

On the top of the left hand Page is set the New and Full Moons, with the First and Last Quarters.

On the top of the right hand Page is set the Rising, Southing and Setting of the Planets.

First quarter the 8 day, at 4 in the morning.
Full Moon the 14 day, at 8 at night.
Last quarter the 22 day, at 7 in the morning.
New Moon the 30 day, 30 min. past 8 in the morning.

1	g	New-years day	aqua.	3	4	A 32		Cloudy & close weather at the beginning with cold winds and ✶♃ ♀ ✶ ♄ ☿ some moisture, afterwards more pleas. weather is expected, with △ ♂ ♀ frosts, and it is hoped not extreme, but generally good temperate, weather the season ✶♄ ♀ considered and probably no great alteration till towards the last quarter, ♂ ☉ ☿ then expect cold winds, □ ♂ ☿ with □ ♄ ☿ storms of snow or cold rain □ ☉ ♄ and va- □ ☉ ♂ ☿ ♂ ♄ ♂ riety of weather to the end of the month.
2	b	☽ n. fin. hu n. ♒	aqua.	14	5	48		
3	c	☽ n. Dex. hu. ♒	aqua.	27	7	8		
4	d	☽ n. Au. cap pis.	pisc.	10	8	30		
5	e	☽ n. Bor. cap. ee.	pisc.	23	9	55	Moons Setting.	
6	f	Epiphany	aries	6	11	20		
7	g	♄ ♏ 17	aries	15	12	42		
8	a	♃ ♐ 4	taur.	3	☌ M.	43		
9	b	Sol in Aquarius	taur.	17	2	14		
10	c	♂ ♉ ☿	gem.	1	3	44		
11	d	♀ ♑ 11	gem.	16	5	12		
12	e	1 Sun. past Eph.	canc.	1	6	20		
13	f	☿ ♑ 29	canc.	16	7	27		
14	g	☽ n. Aquilus	leo	1	Full	●	—	
15	a	☽ n. Au. cap. le.	leo	15	5	A. 4		
16	b	☽ n. Cor leonis	leo	29	5	26		
17	c	☽ n. Cau. leonis	virgo	13	7	50		
18	d	☽ n. Sin. Ala ♍	virgo	26	9	15		
19	e	2 Sun. past Eph.	libr.	9	10	36	Moons Rising.	
20	f	☽ n. Arista	libr.	21	12	6		
21	g	☽ n. luc. Coron.	scorp.	4	☌ M.	6		
22	a	☽ n. luc. Col. ser.	scor.	16	1	15		
23	b	Term begins	scorp.	28	2	30		
24	c	☽ n. dex. Gen. O.	sagit.	10	3	44		
25	d	Conver. S. Paul	sagit.	22	4	50		
26	e	3 Sun. past Epip.	capr.	4	5	46		
27	f	☽ n. Caud. vult.	capr.	16	6	27		
28	g	☽ n. luc. Vultur.	capri.	28	7	6		
29	a	☽ n fin. hum. ♒	aqua	10	7	22		
30	b		aqua.	23	New	●	—	
31	c	☽ n. Aust. a. pis.	pisc.	6	6	A. 16		

Saturn riseth about 2 in the morning, and is South between 6 and 7.
Jupiter at the beginning sets about 8 at night, at the end he sets betwixt 6 and 7.
Mars sets between 1 and 2 in the morning.
Venus riseth about break of day.
Mercury is combust.

English Accom.	Forei. Accompt.	Rom. Kalenda.	Rom. Scs. Days.	
1	11	D	e	Hyginus
2	12	E	f	Satyrius
3	13	F	g	Hilary
4	14	G	A	Felix
5	15	A	b	2 past Epip.
6	16	b	c	Marcellus
7	17	c	d	Anthony
8	18	d	e	Prisca
9	19	e	f	Pontian
10	20	f	g	Fab. Seb.
11	21	g	A	Agnes
12	22	A	b	Septuages.
13	23	b	c	Emerent
14	24	c	d	Timothy
15	25	d	e	*Conv. S. Paul*
16	26	e	f	Policarp
17	27	f	g	Chrysosto.
18	28	g	A	Car. Mag.
19	29	A	b	Sexagesim.
20	30	b	c	Adelgund
21	31	c	d	Virgilius
22	Febr. 1	d	e	Bridget
23	2	e	f	Purif. Mary
24	3	f	g	Blase
25	4	g	A	Veronica
26	5	A	b	Quinquag.
27	6	b	c	Dorothy
28	7	c	d	Shrove-tu.
29	8	d	e	Ash-wedn.
30	9	e	f	Apollon.
31	10	f	g	Scholastica

Ancient Stories of the Stars collected from Dr. Hood and others.

Aries, the Ram, it is called by the Greeks *Crios*, it containeth in it 13 Stars which were brought into this Constellation by *Thyestes* the Son of *Pelops* and Brother of *Acreus*; this is the Ram on which *Phrixus* and *Helle* his Sister, the Children of *Athamas* did sit, when they fled from their Step-Mother *Juno* over the Sea of *Hellespont*, which Ram was afterwards for his good service translated into Heaven by *Jupiter*. Others say that it was the Ram that brought *Bacchus* unto the Spring of water, when through drought he had like to have perished in the Desart of *Lybia*. That Star that is first in the head of the Ram is the Star from whence our later Astronomers do account the longitude of all the rest, and it is distant from the Equinox about 28 degrees 47 minutes.

1	♉	7	13	53
2		5		55
3		4		56
4		2		58
5	♊	1	13	59
6	7	59	14	1
7		58		2
8		57		3
9		55		5
10		53		7
11		52		8
12		50		10
13		49		11
14		47		13
15		46		14
16	7	44	14	16
17		43		17
18		41		19
19		39		21
20		38		22
21		36		24
22		34		26
23		33		27
24		31		29
25		29		31
26	7	27	14	33
27		25		35
28		23		37
29		21		39
30		19		41
31				

☽ First quarter the 6 day, at 1 in the afternoon.
● Full Moon the 13 day, at 9 in the morning.
☾ Laſt quarter the 21 day at 4 in the morning.
● New Moon the 28 day, at 11 at night.

Mon. Day.	Week Da.	Feſtival & Saints days, with the ☽s application to the noted fix'd ſtars.	The ☽s place in zodiack at Noon		The ☽s riſing fro. the full to the change, & ſetting fr. the cha. to the F.		The mutu. Aſ. of the Plan. with the var. conſt., of air & cha. of wea.
1	♄	☽ n. M. rchab	piſc.	19	7	A. 30	Sharp air at the
2	☉	Purificat. Mary	aries	3	8	44	beginning, after-
3	☾	☽ n. vent. Cet	aries	16	10	20	wards expect
4	☿	☽ n Au. P. An.	taur.	0	11	50	high winds with
5	♂	☽ n. Cap Med.	taur.	14	1	2	♂ ♃ ♀ ſtorms
6	♃	☽ n. Pleiades	taur.	28	1	M. 2	and good ſtore of
7	♀	☽ n. Alhaiot	gem.	12	2	4	moiſture, which
8	☿	Sol in piſces	gem.	26	4	11	being paſt, 'tis
9	☉	☿ Sun. paſt Epip	canc.	10	5	16	hoped we may
10	☾	☽ n. procyon	canc.	25	6	0	□ ♄ ☿ : △ ♄ ♀
11	☿	☽ n. Aſelli	leo	9	6	28	have ſeaſonable
12	♂	Term ends	leo	2	6	45	weath. ſome days,
13	♃	♄ ♏ 18 ℞.	virg.	7	Full	● —	with ſome froſts
14	♀	Valentine	virg.	21	5	A. 50	of ſhort continu-
15	☿	♃ ♓ 13	libra	4	8	1	ance, with now &
16	☉	Septuageſima	libra	17	9	36	then ſome moi-
17	☾	♂ ♉ 29	ſcorp.	0	10	55	ſture, but about
18	☿	♀ ♓ ☌ ☉	ſcorp.	12	12	12	□ ♂ ♀ the 19 d.
19	♂	♀ ♓ 29 R.	ſcorp.	24	0	M. 12	expect ſome
20	♃	☽ n. Cor. Sco. p.	ſagit.	6	1	26	ſtorms, with cold
21	☾	☽ n. Dex. ♄ Op.	ſagit.	18	2	34	♂ ☉ ♃ & windy
22	♀	☽ n. luc. Lyræ	capri.	0	3	38	weath. ſeveral d.
23	☉	Sexageſima	capri.	12	4	34	and towards the
24	☾	S. Matthias	capri.	24	5	5	end of the month
25	☿	☽ n luc. man. ♒	aqua.	6	5	25	cold cloſe & mi-
26	♂	☽ n. dex. ſh ♒	aqua.	19	5	43	△ ☉ ♄ ſly wea-
27	♃	☽ n. A dex. m ♒	piſc.	2	6	0	ther is expected.
28	☾	☽ n. Auſ. Ca. piſ.	piſc.	15	New	● —	☉ *Eclipſed inviſ.*

Moons Setting.

Moons Riſing.

Saturn at the beginning riseth about 1 in the morning, at the end he riseth about midnight, and is South about 4. *Jupiter* goeth to Combustion. *Mars* sets about 1 in the morning. *Venus* riseth a little before the Sun. *Mercury* about the midst of the month doth set near half an hour after 6 at night.

English Accompt.	Forein Accompt.	Roman Kalendar.	Roman Saints days.	*Ferie, State of concept.*	*Poetical Stories of the Stars.*	M.D.	☉ m.	☉ sc.
1	11	g	Euphrod:		*Leo*, The Lion, it hath	1	7 16	4 44
2	12	A	Quadrages:		27 Stars; this is that Lion	2	14	46
3	13	b	Agabus		which *Hercules* overcame	3	12	48
4	14	c	Valentine		in the Wood of *Nemea*,	4	10	50
5	15	d	Faustin		and was placed in Heaven	5	8	52
6	16	e	Juliana		in remembrance of so	6	6	54
7	17	f	Constance		notable a deed: in the	7	4	56
8	18	g	Concord		breast of this Constella-	8	2	4 58
9	19	A	Reminiscer		tion is that notable great	9	7 0	5 0
10	20	b	Eucharist		Star, the light whereof	10	5 58	5 2
11	21	c	Esaias		is such, that therefore it	11	56	4
12	22	d	Peters Ch.		is called by Astronomers	12	54	6
13	23	e	Polycarp		*Basiliscus* or *Regulus*, that	13	52	8
14	24	f	S. Matthias		is, the Viceroy or little	14	49	11
15	25	g	Victor		King amongst the rest;	15	47	13
16	26	A	Oculi		the unformed Stars be-	16	45	15
17	27	b	Fortunat		longing to the Lion are	17	43	17
18	28	c	Macar		eight, whereof three	18	5 41	5 19
19	Mar.		David		make the Constellation	19	39	5 21
20	2	e	Chad		*Coma Berenices*, that is,	20	37	23
21	3	f	Cunigur		the Hair of *Berenice*.	21	34	26
22	4	g	Adrianus		This Constellation was	22	32	28
23	5	A	Lætare		first found out and in-	23	30	30
24	6	b	Frederick		vented by *Conon* the	24	28	32
25	7	c	Felicitas		Mathematician, but de-	25	6 26	5 34
26	8	d	Cyprian		scribed by *Calimachus*	26	24	36
27	9	e	Prudence		the Poet.	27	22	38
28	10	f	Michæas		The	28	20	4

☽ First quarter the 7 day, at 9 at night.
☉ Full Moon the 14 day, at 10 at night.
☾ Laſt quarter the 22 day, at 11 at night.
● New Moon the 30 day, at 10 in the morning.

1	D	☽ n. Au. Ca. Ce.	pisce. 23	6	A. 12	Moons Setting.		Cloudy and close at the beginning afterwards high ☌ ☉ ☿ ☍ ☿ ☿ △ ♄ ☿ winds with drifling ☌ ☿ ☿ rain is △ ♄ ♅ expected and is like to continue windy ☌ ♃ ☿ for some days, but about △ ♄ ☿ the full *Moon Eclipſ. viſib.* moon 'tis hoped we may have mo temperate weath. but about the □ ☍ ☿ 18th. or 19th. days ſome ſtorms of Rain △ ♄ ☿ or hail which being paſt 'tis expected that we may have ſeaſonable weath. to the end of the month, and then □ ♅ ☍ ſome ☍ ♅ ☿ briſk winds.
2	E	Quinquageſima	aries 12	8	12			
3	F	☽ n. prim. ✶ A.	aries 26	9	42			
4	G	Shrove-Tueſday	taur. 10	11	16			
5	a	Aſh-Wedneſday	taur. 25	12	38			
6	b	☽ n. Aldebaran.	gem. 9	0 M.	38			
7	c	☽ n. dex. hu Au.	gem. 23	2	0			
8	d	☽ n. Syrius	canc. 7	3	15			
9	e	Quadrageſima	canc. 21	4	0			
10	f	Sol in Aries	leo. 5	4	38			
11	g	☽ n. Lions heart	leo. 19	5	0			
12	a	☽ n. luc. terg le.	virg. 3	5	18			
13	b	Ember Week	virg. 16	5	32			
14	c	♄ ♏ 17 ℞	virg. 29	Full	○			
15	d	♃ ♓ 10	libr. 12	7	A. 16			
16	e	2 Sund. in Lent.	libra 25	8	40			
17	f	☌ ♊ 15	ſcorp. 8	10	2			
18	g	♀ ♈ 4	ſcorp. 20	11	16			
19	a	☿ ♓ 16 D.	ſagit. 2	2	24	Moons Riſing.		
20	b	☽ n. dex. gen. O.	ſagit. 14	0 M.	24			
21	c	Benedict	ſagit. 26	1	30			
22	d	☽ n. lu:. Lyræ	capr. 8	2	27			
23	e	3 Sund. in Lent	capr. 20	3	8			
24	f	☽ n. luc. ✶ m ♒	aqua. 2	3	36			
25	g	Annunt. B. M.	aqua. 14	3	54			
26	a	☽ n. Dex. hu. ♒	aqua. 27	4	10			
27	b	☽ n. Au. cap. ♓	piſces 10	4	25			
28	c	☽ n. Bor cau. c.	piſce. 23	4	41			
29	d	☽ n. Cap. And.	aries 7	5	(			
30	e	Sunday	aries 21	New	●			
31	f	☽ n. luc. ✶ c. ar.	taur. 6	8	A. 50			

Saturn riseth betwixt 10 and 11 at night, and is South betwixt 2 and 3 in the morning.
Jupiter riseth a little before the Sun.
Venus towards the end goeth to Combustion.
Mars sets about midnight.
Mercury at the beginning is Combust, but towards the end he emergeth from the Sun-beams, and riseth before him.

English Accom.	Forein Accom.	Rom. Kalendar.	Rom. Sts. Days.	
1	11	G	Cunibert	The occasion of this sto-
2	12	A	Judica	ry was this, *Ptolomeus E-*
3	13	b	Ephrem	*vergetes* having married
4	14	c	Eutychus	*Berenice* the Daughter of
5	15	d	Longinus	*Philadelphus* and *Arsinoe*,
6	16	e	Cyriacus	was shortly after enforc'd
7	17	f	Patrick Bi.	to depart from her, by
8	18	g	Gabriel	reason of the Wars he
9	19	A	Palm Sund.	had begun in *Asia*; where-
10	20	b	Rupert	upon *Berenice* made this
11	21	c	Benedict	Vow, that if he returned
12	22	d	Paulinus	home again in safety, she
13	23	e	Godfridus	would offer up her Hair
14	24	f	Quirinus	in *Venus* Temple; *Ptolo-*
15	25	g	An. B. V. M.	*my* returned safe, and *Be-*
16	26	A	Pascha	*renice* according to her
17	27	b	Jo. Erem.	Vow cut off her Hair, and
18	28	c	Gideon	hung it up, after certain
19	29	d	Eustace	days the Hair was not to
20	30	e	Guido	be found, whereupon *Pto-*
21	31	f	Balbina	*lomy* the King was greatly
22	April	g	Theodore	displeased: But *Conon* to
23	2	A	Quasimod.	please the humor of the
24	3	b	Christian	King, and to curry favor
25	4	c	Ambrose	with him, perswaded him
26	5	d	Vincent	that *Venus* had conveyed
27	6	e	Sixtus	the Hair into Heaven. *Co-*
28	7	f	Cœlestin	*non* attributeth seven Stars un-
29	8	g	Dionysius	to it, but *Ptolomy* allotted i
30	9	A	Misericord.	but three becaus: the other
...	...	b	Ezechiel	are insensible.

1	☽	18		42			
2		16		44			
3		14		46			
4		12		48			
5		10		50			
6		8		52			
7		6		54			
8		4		56			
9		2	5	58			
10	5	0	6	0			
11	5	58	6	2			
12		56		4			
13		54		6			
14		52		8			
15		50		10			
16		48		12			
17		46		14			
18	5	44	6	16			
19		42		18			
20		40		20			
21		38		22			
22		36		24			
23		34		26			
24		32		28			
25	5	30	5	30			
26		27		33			
27		25		35			
28		23		37			
29	5	21	6	39			
30		18		42			
31		16		44			

In

April hath xxx. days.

☽ First quarter the 5 day, at 3 in the morning.
● Full Moon the 13 day, 48 m. after noon.
☾ Last quarter the 21 day, at 4 in the afternoon.
● New Moon the 28 day, at 7 at night.

1	g	☽ n. Cap. Med.	taur.	20	10 A.	50	
2	a	☽ n. Aldeba.	gem.	5	11	20	
3	b	☽ n. Alhaiot	gem.	19	1	14	
4	c	☽ n. Syrius	canc.	4	1 M.	14	Moons Setting.
5	d	☽ n. Procyon	canc.	18	2	12	
6	e	5 Sund. in Lent	leo	2	2	48	
7	f	☽ n. Au Ca. leo	leo	16	3	8	
8	g	☽ n. Cor leonis	leo	29	3	24	
9	a	Sol in Taurus	virg.	12	3	38	
10	b	☽ n. A is. al. V r.	virgo	25	3	52	
11	c	☽ n. sin. al. V r.	libra	8	4	6	
12	d	☽ n. A ista	libra	21	4	10	
13	e	Palm Sunday	scorp.	3	Full ●		
14	f	♄ ♏ 15 ℞.	scorp.	16	9 A.	6	
15	g	♃ ♓ 26	scorp.	29	10	22	
16	a	♂ ♋ 3	sagit.	10	11	30	
17	b	♀ ♉ 11	sagit.	24	12	28	
18	c	☿ ♈ 16	capr.	4	0 M.	28	Moons Rising.
19	d	☽ n. Caud. Vult.	capri.	1	1	16	
20	e	Easter day	capr.	28	1	48	
21	f	☽ n. left. sho. ♒	aqua.	10	2	6	
22	g	☽ n. Os Pegasi	aqua.	22	2	21	
23	a	S. George	pisce.	5	2	36	
24	b	☽ n. March. Peg.	pisce.	18	2	51	
25	c	S. Mark	aries	1	3	6	
26	d	☽ n. Vent. Cet.	aries	15	3	21	
27	e	Low Sunday	aries	29	3	36	
28	f	☽ n. P. 3. cau. ♈	taur.	14	New ●		
29	g	☽ n. Pleiades	taur.	29	9 A.	38	☽ Sett.
30	a	☽ n. Alhaiot	gem.	1[illegible]	10	48	

□ ♂ ☿ Windy at the beginning, afterwards pleasant and season-
✱ ♂ ♀ able
☌ ☉ ♀ weather,
✱ ☉ ♂ with drising Rain and some brisk gales of Wind, and (if I mistake not) we shall have about the 13th. 14th. or 15th. days, showers of Rain, and plenty of them. Also frequent showers of Rain ♂ ♄ ♀ are expected to the end of the month, chiefly about the ♂ ☉ ♄ 20th. day, the 24th. or 25th. and about the 28th or 29th. days.

APRIL. 1690.

Saturn towards the end riseth betwixt 7 and 8 at night, and is South at mid-night.
Jupiter riseth before the Sun.
Mars sets about midnight.
Venus is combust.
Mercury riseth before the Sun.

English Accom	Forein. Accom	Rom. Kalendar.	Rom. St. days.						
1	11	c	Leo, Pap.	In the right wing of	1	5	14	6	46
2	12	d	July Bish.	*Virgo* is one Star of spe-	2		12		48
3	13	e	Justinus	cial note, which by the	3		10		50
4	14	f	Tiburtius	Astronomers is called	4		8		52
5	15	g	Olympia	*Vindemiator*, i. e the ga-	5		6		54
6	16	A	Jubilate	therer of Grapes. This	6		4		56
7	17	b	Anicetus	was *Amphelos* the Son of a	7		2	6	58
8	18	c	Apollon.	Satyr and a Nymph, and	8	5	0	7	0
9	19	d	Timothy	was greatly beloved of	9	4	58	7	2
10	20	e	Sulpitius	*Bacchus*, unto whom, in	10		56		4
11	21	f	Adelarius	token of his love, *Bacchus*	11		54		6
12	22	g	Emanuel	gave a singular fair Vine,	12		52		8
13	23	A	Cantate	planted at the foot of an	13		50		10
14	24	b	Albertus	Elm (as the manner was	14		48		12
15	25	c	S. Mark	in old time.) But *Amphe-*	15		46		14
16	26	d	Cletus	*los* in harvest gathering	16		44		16
17	27	e	Anastasius	Grapes, and taking little	17		42		18
18	28	f	Vitalis	heed to his footing, fell	18	4	41	7	19
19	29	g	Sibylla	out of the Vine & brake	19		39		21
20	30	A	Rogat. Sun.	his neck. *Bacchus* in me-	20		37		23
21	May		S. Phil. & Ja	morial of his former love,	21		36		24
22	2	c	Athanasius	translated him into Hea-	22		34		26
23	3	d	Inv. Crucis	ven, and made him one	23		33		27
24	4	e	Ascen. Dom.	of the principal Stars in	24		31		29
25	5	f	Gothard	this Constellation. There is	25	4	30	7	30
26	6	g	Jo. à Port	another great Star in the hand	26		28		32
27	7	A	Exaudi	of *Virgo*, called of the Latins	27		26		34
28		b	Stanislaus	*Spica*, of the Greeks *Stachus*,	28		25		35
29	9	c	Hiobæ	of the Arabians *Azimech*, i. e	29		23		37
30	10	d	Pancratius	the ear of Corn, whereby they	30		21		39
				signifie, that when the Sun					
				cometh to this sign, the Corn					
				waxeth ripe.					

☽ First quarter the 5 day, at 10 in the morning.
● Full moon the 13 day, 45 min. past 3 in the morning.
☾ Last quarter the 21 day, at 6 in the morning.
● New Moon the 28 day, 30 min. past 2 in the morning.

1	b	S. Phil. & Jac.	gem. 29	11	A.	54			We may expect
2	c	☽ n. Caſtor	canc. 14	12		54			ſome Wind and
3	d	☽ n. Aſelli	canc. 28	0	M.	54			☌ ♂ ☿ ☍ ♄ ☿
4	e	☉ Sun. paſt Eaſt.	leo 12	1		20			driſling Rain a-
5	f	☽ n. Cor leonis	leo. 26	1		36			△ ♄ ♂ ✶ ♃ ♀
6	g	☽ n. poſt gen. le.	virg. 9	1		50			bout this time,
7	a	Term begins	virg. 22	2		4			afterwards good
8	● b	☽ n. Vindemiat.	libra 5	2		17			temperate weath.
9	c	☽ n. Arilta	libra 18	2		30			for ſome days,
10	d	Sol in Gemini	ſcorp. 0	2		43			but about full M.
11	e	☉ Sun. paſt Eaſt	ſcorp. 12	2		55			✶ ☉ ♃ wind &
12	f	☽ n. ſu. Front. ♏	ſcorp. 24	3		8			✶ ♃ ☿ ☌ ☉ ☿
13	g	☽ n. Antares	ſagit. 7	Full		●			rain is expected,
14	a	♄ ♏ 13 ℞.	ſagit. 19	10	A.	20			then ſeaſonable
15	b	☿ ♐ 2	capr. 0	11		10			weather for ſome
16	c	♂ ♎ 21	capr. 12	11		52			days, and other-
17	d	☿ ♏ 17	capr. 24	12		16			whiles ſome briſk
18	e	♃ Sun. paſt Eaſt.	aqua. 6	0	M.	16			gales of wind,
19	f	☿ ♏ 17 ℞	aqua. 18	0		30			and about the 20.
20	g	☽ n. Ex. Al. Peg.	piſces 0	0		42			or 21. days ſome
21	a	☽ n. March. b.	piſc. 12	0		54			☌ ☿ ☿ miſts or
22	b	☽ n. Caud. cet.	piſces 26	1		8			driſling rain, but
23	c	☽ n. Cap. And	aries 9	1		29			generally good
24	d	☽ n. firſt ✶ ♈	aries 23	1		38			ſeaſonable weath.
25	e	Rogat. Sunday	taur. 8	1		54			to the end of the
26	f	☽ n. Pleiades	taur. 22	2		10			mouth, with ſome
27	g	☽ n. Aldebaran	gem. 8	2		26			□ ♃ ☿ ſhowers
28	a	☽ n. dex. hu. Au.	gem. 22	New		●			of Rain about
29	b	Aſcentio Dom.	canc. 8	10	A.	45			the 29th. or 30th.
30	c	☽ n. Procyon	canc. 23	11		20			days.
31	d	☽ n. Aſelli	leo 8	11		40			□ ♃ ☿

Moons Setting. ☽ ☾ ☽ ☾ ☽ ☾

Saturn *is South about* 11 *at Night, and sets between* 2 *and* 4 *in the Morning.* Jupiter *riseth about* 2 *in the Morning.* Mars *sets between* 11 *and* 12 *at Night.* Mercury *all the fore part of the Month is Combust, but towards the end hath* Venus *and* Mercury *emerge from the Sun-beams, and set after him.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Roman Festivals.					
1	11	e	Christian	*Cancer*, the *Crab*, it hath	1	4	19	7
2	12	f	Gordian	9 Stars. This is that *Crab*	2		17	
3	13	g	Servatius	that bit *Hercules* by the heel	3		15	
4	14	a	Pentecost	as he fought with the Ser-	4		14	8
5	15	b	Sophia	pent *Hydra* in the Fen *Lerna*;	5		12	
6	16	c	Peregrin	and for his forward service	6		10	
7	17	d	Jodocus	was placed in Heaven by	7		9	
8	18	e	Venant.	*Juno*, the utter Enemy of	8	4	8	7
9	19	f	Sarah	*Hercules*. In this Constel-	9		6	
10	20	g	Bernard.	lation there are Stars much	10		5	
11	21	a	Trinity	spoken on by the Poets;	11		3	
12	22	b	Helena	although they be but small,	12		2	
13	23	c	Ember	whereof one is called the	13		1	
14	24	d	Whitsun	*Crab*; other two are	14	4	0	8
15	25	e	Whitsun	the two Asses, whereof	15	3	59	
16	26	f	Edward	one was the Ass of *Bac-*	16		58	
17	27	g	Beda V.	*chus*, the other of *Vulcan*,	17		57	
18	28	a	Whitsun	whereon they rode to bat-	18		55	
19	29	b	Maximin.	tle; when as the Giants	19		54	
20	30	c	Pentecost	made war with the Gods;	20		53	
21	31	d	Petronc.	with whose braying and	21		52	
22	1	e	Nicomed.	strange noise the Giants	22		51	
23	2	f	Marcellin.	were so scared upon the	23		50	
24	3	g	Erasmus	sudden, that they forsook	24		49	
25	4	a	Trinity	the Field and fled. The	25	3	48	
26	5	b	Bonifac.	Gods getting the Victory	26		47	
27	6	c	Artemid.	in triumphing manner	27		46	
28	7	d	Paul Ep.	translated both the Asses	28		45	
29	8	e	Medardus	and their Manger into	29		44	
30	9	f	Barnius	Heaven.	30		43	
31	10	g	Onufrius		Sagit.	31	3	42

☽ First Quarter the 5 day, at 7 in the afternoon.
● Full Moon the 11 day, 30 min. past 6 in the afternoon.
☾ Last Quarter the 19 day, at 6 in the afternoon.
● New Moon the 26 day, 30 min. past 8 in the morning.

1		S. past Trinity	leo	22	11	56		△ ♄ ☿ some
2	f	Term ends	virgo	6	12	12		brisk gales of wind
3	g	☽ n. Caud. Leon.	virgo	15	0 M	12	Moons Setting.	at the beginning,
4	a	☽ n. Vindemiot	libr.	2	0	46		afterwards pleasant
5	b	☽ n. Aristæ	libr.	15	0	40		weather for some
6	c	☽ n. luc. Coron.	libr.	27	0	56		△ ♃ ☿ days, and
7	d	☽ n. lanx. Bore.	scorp.	9	1	14		about the 8th day
8	e	Whitsun day	scor.	21	1	31		some showers are
9	f	☽ n. Cor. Scorp.	sagit.	3	1	50		△ ♃ ♂ expected,
10	g	☽ n. dex. hu. Op.	sagit.	15	2	[illegible]		also an increase of
11	a	St. Barnabas	sagit.	27	[illegible]	[illegible]		heat about this
12	b	Ember week	capr.	9	9 A	48		time, and probably
13	c	☽ n. Luc. Vult.	capr.	21	10	12		some Thunder too,
14	d	♄ ♏ 12. R.	aqua.	3	10	31		and about the 16th
15	e	Trinity Sund.	aqua.	15	10	47		day some Mists or
16	f	♃ ♈ 6.	aqua.	27	11	1		drizing Rain; after
17	g	♂ ♌ 6. 11.	pisces	10	11	15	Moons rising.	□ ☉ ♃ which
18	a	♀ ♋ 26.	pisces	22	11	30		expect some cooling
19	b	☿ ♌ 2.	aries	5	11	45		□ ♄ ♂ gales of
20	c	Term begins	aries	18	12	0		Wind: But towards
21	d	☽ n. luc. in Ca. ♈	taur.	2	0 M	0		the New Moon an
22	e	1 S. past Trin.	taur.	16	0	20		△ ☉ ♄ in-
23	f	☽ n. Aldebaran.	gem.	1	0	44		crease of heat, with
24	g	St. Jo. Baptist	gem.	16	1	10		☌ ♀ ☿ showers
25	a	☽ n. Syrius	canc.	1	1	40		of Rain; which
26	b	☽ n. Castor	canc.	16	New	[illegible]		being past we may
27	c	☽ n. Asciii	leo	1	9 A	38	☽ Setting.	have seasonable
28	d	☽ n. Cor. Leon.	leo	16	10	00		weather to the end.
29		t. & Paul.	virgo	1	10	15		
30	f	☽ n. Caud. Leon.	virgo	15	10	26		☐ ♄ ♀

JUNE, 1690.

Saturn *is south about 9 at night, and sets about 1 in the morning.*
Jupiter *rises about midnight.*
Mars *sets between 10 and 11 at night.*
Venus *and* Mercury *set near together, a little after the Sun.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.						
1	11	8	St. Barnab.	*Sagittarius*, the *Archer*:	1	3	44	8	16
2	12	b	Blandin	It hath 31 Stars. As touch-	2		43		17
3	13		Cyrillus	ing this Sign there are	3		43		17
4	14	b	Valerius	among the Poets many and	4		42		18
5	15	c	Vitus	sundry opinions; Some say	5		42		18
6	16	f	Rulandus	that it is *Crocus* the Son of	6		42		18
7	17	g	Voelman	*Puphene*, that was Nurse un-	7		42		18
8	18	8	4 p. Trin.	to the Muses. This *Crocus*	8		41		19
9	19	b	Gervase	was so forward in learning	9		41		19
10	20	c	Regina	of the Liberal Sciences,	10		41		19
11	21	b	Albanus	and in the practice of	11	3	41	8	19
12	22	c	Achatius	Feasts of Activity, that the	12		41		19
13	23	f	Basilius	Muses intreated *Jupiter*,	13		41		19
14	24	g	St. Jo. Bap.	that he might have a place	14		41		19
15	25	8	5 P. Trin.	in Heaven, to whose request	15		42		18
16	26	b	Elogius	*Jupiter* inclining, made him	16		42		18
17	27	c	Jeremias	one of the 12 Signs: And	17		42		18
18	28	b	7 Dorm.	to the end that he might	18		42		18
19	29	c	S. Pet. & P.	express the excellent qua-	19		43		17
20	30	f	Conv. Pau.	lities of the Man, he made	20	3	43	8	17
21	31	7	Theobald	his hinder parts like unto a	21		44		16
22	2	8	6 p. Trin.	Horse, thereby to signifie	22		44		16
23	3	b	Cornelius	his singular knowledge in	23		44		16
24	4	c	Ulricus	Horsmanship, and by his	24		45		15
25	5	b	Anselm	Bow and Arrow, he de-	25		45		15
26	6	c	Hector	clares the sharpness of his	26		46		14
27	7	f	Demetrius	Wits; whereupon the	27		47		13
28	8	g	Chillan.	Astrologers have this con-	28		48		12
29	9	8	7 p. Trin.	ceit, That he that is born	29		49		11
30	10	b	7 Fratres	under	30	3	50	8	10

July hath xxxi. days.

☾ First Quarter the 3 day, at 7 in the morning.
☽ Full Moon the 11 day, 40 min. past 9 in the morning.
☾ Last Quarter the 19 day, at 2 in the morning.
● New Moon the 25 day, at 4 in the afternoon.

1	g	☽ n. Vindemiat.	virg.	28	10	A	37	Good weather about this time is expected; but about the fifth or sixth days, some Wind, and probably Rain therewith, then fair for some days; But about the Full Moon ☌ ☉ ☿ some showers of Rain; and about the thirteenth or fourteenth days misty Mornings; afterwards expect dry Winds for some days, and generally △ ☉ ♃ seasonable. Now expect hot and sultry Weather for some days, □ ☉ ♄ and if I mistake not, may ✶ ♄ ☊ continue without much alteration to the end of the Month.
2	a	☽ n. Arista	libr.	11	10		48	
3	b	☽ n. Arcturus	libr.	24	11		0	
4	c	☽ n. Luc. Coron.	scorp.	6	11		12	
5	d	☽ n. lanx. Bore.	scorp.	18	11		24	
6	e	☾ 3 S. past Trin.	sagit.	5	1		42	
7	f	☾ n. dex. G. Oph.	sagit.	12	12		12	
8	g	☽ n. dex. hu. Op.	sagit.	24	0	M	12	
9	a	Term ends	capr.	6	1		4	
10	b	☽ n. Can. Vult.	capr.	18	2		8	
11	c	☽ n. luc. Vult.	aqua.	0	Full			
12	d	Solis Leo	aqua.	12	8	A	53	
13	e	☾ 4 S. past Trin.	aqua.	24	9		4	
14	f	♄ ♏ 11 D.	pisces	7	9		15	
15	g	Swithin.	pisc.	19	9		27	
16	a	♃ ♈ 8 R.	aries	2	9		38	
17	b	♂ ♌ 29	aries	15	9		50	
18	c	♀ ♑ 2	aries	28	10		3	
19	d	☿ ♋ 24 D.	taur.	12	10		20	
20	e	☾ 5 S. past Trin.	taur.	6	10		48	
21	f	☽ n. Alhaiot.	gem.	10	11		24	
22	g	☽ n. dex. hu. An.	gem.	24	12		24	
23	a	☽ n. Syrius	canc.	10	0	M	24	
24	b	☽ n. Procyon.	canc.	25	1		48	
25	c	St. James	leo	10				
26	d	☽ n. Cor Leonis	leo	25	8	A	14	
27	e	☾ 6 S. past Trin.	virgo	9	8		32	
28	f	☽ n. sin. ala. ♍	virgo	23	8		48	
29	g	☽ n. Vindemiat.	libra	7	9		12	
30	a	☽ n. Arista	libra	20	9		16	
31	b	☽ n. luc. Coron.	scorp.	2	9		30	

Moons Setting

Moons Rising

Sun Setting

Saturn *at the beginning sets betwixt* 11 *and* 12; *at the end he sets* 10 *at Night.* Jupiter *riseth about* 10 *at night, and is South about* 4 *in the morning.* Mars *and* Venus *set together near* 9 *at night.* Mercury *at the beginning goeth to Combustion, at the end he may be seen rising before the Sun.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Romish Saints.							
1	12	c	Pius	under *Sagittarius*, shall at-	1	3	51	8	9	
2	13	d	Henricus	tain to the knowledge of	2		52		8	
3	13	e	Margaret	many Arts, and be of	3		53		7	
4	14	f	Bonavent.	prompt Wit and great	4		54		6	
5	15	g	Swithin	Courage. *Virgil* affirmeth	5		55		5	
6	16		S. Trin.	this to be *Chiron* the *Cen-*	6		56		4	
7	17	b	Alexius	*taur*, who for his singu'ar	7		58		2	
8	18	c	Maternus	Learning and Justice was	8	3	59	8	1	
9	19	d	Ruffina	made the Master of *Achil-*	9	4	0	8	0	
10	20	e	Ellas	*les*. At which time *Hercules*	10		1	7	59	
11	21	f	Daniel	coming to visit him (for he	11		3		57	
12	22	g	Mary Mag.	had heard both of the wor-	12		5		55	
13	23		S. Apoll.	thiness of the Schoolmaster,	13		6		54	
14	24	b	Christina	and of the great hope of	14		7		53	
15	25	c	James	the Scholar) brought with	15		9		51	
16	26	d	Anna	him his Quiver of Arrows	16		10		50	
17	27	e	Martha	dipped in the Blood of the	17		11		49	
18	28	f	Panthal.	Serpent *Hydra*; but *Chiron*	18		13		47	
19	29	g	Beatrice	being desirous to see his	19		14		46	
20	30		S. Prisca.	Shafts, and not taking heed	20	4	16	7	44	
21	31	b	German	of them, being in his hand,	21		17		43	
22			Lammas	let one of them fall upon	22		19		41	
23	2	d	Moses	his Foot, and being greatly	23		20		40	
24	3	e	Dominic.	tormented, not only with	24		22		38	
25	4	f	Aristarch.	the anguish of the Poison,	25		24		36	
26	5	g	Oswaldus	working in the wound, but	26		25		35	
27	6		S. Pant.	much more, because he	27		27		33	
28	7	b	Afra	knew himself to be immor-	28		29		31	
29	8	c	Ladislaus	tal, and his wound not to	29		31		29	
30	9	d	Roman.	be recovered by Medicine,	30	4	35	7	27	
31	10	e	Lawrence							

☽ First Quarter the 1 day, at 8 at night.
● Full Moon the 9 day, 45 minutes past 11 at night.
☾ Last Quarter the 17 day, at 8 in the morning.
● New Moon the 24 day, at 1 in the morning.
☽ First Quarter the 31 day, at 2 in the afternoon.

1	c	Lammas	scorp.	15	9	A. 44		Some showers of
2	d	☽ n. fin. gen. Op.	scorp.	27	10	0	Moon Setting.	Rain are expected
3	e	S. past Trinity	sagit.	9	10	24		at the beginning of
4	f	☽ n. dex. hu. Op.	sagit.	21	11	4		the Month; the
5	g	☽ n. luc. Lyræ	capr.	3	12	0		fair for some time
6	a	☽ n. Cand. Vulp.	capr.	15	0	M. 0		☌ ☿ ♀
7	b	☽ n. Luc. Vulp.	capr.	27	1	8		✶ ♄ ♂
8	c	☽ n. luc. man. ♒	aqua.	9	2	24		But the Full Moon
9	d	☽ n. finist. hu. ♒	aqua.	21	Full	☽		□ ♄ ♀
10	e	S. past Trinity	pisces	3	7	A. 26		produceth Rain and
11	f	☽ n. Marchab. P.	pisces	16	7	40		Foggy weather, af-
12	g	☽ n. Caud. Cet.	pisces	29	7	53		terwards some brisk
13	a	Sol in Virgo	aries	12	8	6		Wind and seasona-
14	b	☽ n. Pl. ✶ Ar.	aries	25	8	20		ble weather; and
15	c	☽ n. Mankar.	taur.	8	8	38	Moon Rising.	about this time hot
16	d	☽ n. Pleiades	taur.	22	9	0		and sultry weather,
17	e	S. past Trinity	gem.	6	9	24		☌ ☿ ♀
18	f	☽ n. Alhaior	gem.	20	10	4		with misty Morn-
19	g	☽ m ♋	canc.	5	11	16		ings is expected,
20	a	☿ ☌ 6	canc.	19	12	46		and generally good
21	b	☌ ♍ 21	leo	4	0	M. 46		Harvest weather till
22	c	♀ ♎ 12	leo	18	2	24		about the New
23	d	♀ ♍ 8	virg.	3	4	4		Moon; then expect
24	e	S. Bartholom.	virg.	17	New	●		☉ Eclipsed invisible
25	f	☽ n. Vindemiat.	libra	1	7	A. 8		☌ ☉ ♀
26	g	☽ n. Arista	libr.	15	7	24	☽ Setting.	✶ ☉ ♄ ☿
27	a	☽ n. luc. Coron.	libr.	28	7	40		showers of Rain,
28	b	☽ n. lanx. Austr.	scorp.	11	8	00		with Wind; also a-
29	c	☽ n. fin. Ma. Op.	scorp.	23	8	20		bout the 29th day
30	d	☽ n. Cor. Scorp.	sagit.	5	8	42		some showers.
31	e	S. past Trin.	sagit.	17	9	10		

Saturn *sets about* 9 *at night.* Jupiter *riseth about* 8 *at night, and is South about two in the Morning.*
Mars *sets hitwixt* 7 *and* 8 *at night.*
Venus *sets about* 8 *at night.*
Mercury *at the beginning riseth before the Sun; but at the end he is Combust.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Ecclesiast.							
1	11	f	Titus	he was enforced to make	1	4	37	7	23
2	12	g	Clara	requeſt unto the Gods, that	2		39		21
3	13	a	12 P. Trin	he might be taken out of	3		41		19
4	14	b	Bertram.	the World, who pitying his	4		42		18
5	15	c	Aſſump. M.	caſe, took him up into	5		44		16
6	16	d	Rochus	Heaven, and made him one	6		46		14
7	17	e	Agepitus	of the 12 Signs.	7		48		12
8	18	f	Helena	*Capricornus*, the *Goat*, it	8		50		10
9	19	g	Sebaldus	conſiſteth of 28 Stars. The	9		52		8
10	20	a	13 P. Trin	Poets ſay, that this was *Pan*,	10		54		6
11	21	b	Athanaſius	the God of the Shepherds,	11		56		4
12	22	c	Symphor	of whom they feign in this	12	4	58	7	2
13	23	d	Zachæus	manner. The Gods having	13	5	07		0
14	24	e	St. Bartho	was with the Giants, ga-	14		16		59
15	25	f	Ludovic.	thered themſelves together	15		3		57
16	26	g	Irenæus	into *Egypt*, *Typhon* the Gi-	16		5		55
17	27	a	14 p. Trin	ant purſued them thither,	17		7		53
18	28	b	Auguſtine	whereby the Gods were	18		9		52
19	29	c	Decol. J. B.	brought into a quandary,	19		10		50
20	30	d	Fœlix P.	that well was he that by	20		12	7	48
21	31	e	Paulinus	changing his ſhape could	21		14		46
22	Sept.		Ægidius	ſhift for himſelf. *Jupiter*	22		16		44
23	2	g	Rachel	turned himſelf into a Ram;	23		18		42
24	3	a	15 p. Trin	*Apollo* became a Crow;	24		20		40
25	4	b	Theodoſe	*Bacchus* a Goat, *Diana*	25		22		38
26	5	c	Zachary	lurked under the form of a	26		24		36
27	6	d	Magnus	Cat; *Juno* transformed her	27		26		34
28	7	e	Regina	ſelf into a Cow; *Venus* into	28		28		32
29	8	f	Nat. V. M.	a Fiſh, *Pan* leaping into	29	5	30	7	29
30	9	g	Kunigur	the River *Nilus*, turned the	30		32		27
31	10	a	16 p. Trin	B 4 upper	31		34		25

☽ Full Moon the 8 day, at 2 in the afternoon.
☾ Laſt Quarter the 15 day, at 3 in the afternoon.
● New Moon the 22 day, 40 min. after Noon.
☽ Firſt Quarter the 30 day, at 9 in the morning.

1	f	☽ n.ſin. Mich.	ſagit.	29	9	A	54	☽'s Setting.
2	g	☽ n. luc. Lyræ	capr.	11	11		4	
3	a	☽ n. luc. Vult.	capr.	23	12		12	
4	b	☽ n.luc. Ma. ♒	aqua.	5	0	M	12	
5	c	☽ n.ſin.hu. ♒	aqua.	17	1		30	
6	d	☽ n. dex.hu. ♒	aqua.	25	2		54	
7	e	12 S. poſt Trin.	piſces	12	4		20	
8	f	☽ n. Caud. Cet.	piſc.	25	full		☉	I
9	g	☽ n. Cap. Andr.	aries	8	6	A	20	
10	a	☽ n. pr. ♈ Aries	aries	21	6		34	
11	b	☽ n. Manker.	taur.	5	6		50	
12	c	☉ in ♎ libra	taur.	19	7		10	
13	d	☽ n. Aldebaran	gem.	3	7		34	
14	e	13 S. poſt Trin.	gem.	17	8		16	
15	f	☽ n. Syrius	canc.	1	9		20	Moons Riſing.
16	g	☽ n. Caſtor	canc.	15	10		40	
17	a	Ember week	canc.	29	12		10	
18	b	☿ ♍ 15.	leo	14	0	M	10	
19	c	♀ ♈ 2	leo	28	1		40	
20	d	♂ ♎ 11	virg.	12	3		10	
21	e	S. Matthew	virg.	26	4		40	
22	f	☿ ♍ 17	libr.	9	New		☽	I
23	g	☿ ♍ 0 0	libr.	23	5	A	48	
24	a	☽ n.luc.Coron.	ſcorp.	6	6		4	Moons Setting.
25	b	☽ n.luc.Col.Ser.	ſcor.	18	6		24	
26	c	☽ n.Antares	ſagit.	1	6		50	
27	d	☽ n.dex.hu.Op.	ſagit.	13	7		20	
28	e	14 S. poſt Trin.	ſagit.	25	8		00	
29	f	St. Michael	capr.	7	9		0	
30	g	☽ n. Luc. Vult.	capr.	19	1		8	

Seaſonable a the beginning, but ſoon changeth to windy, ☽ ♂ ♀ ſtormy and turbulent wea- ☿ ♃ ♄ ther, which ♑ feared ☽ Eclipſed inviſible ♂ ♃ ♂ may continue ſeveral days; alſo about the 14th or 15th days expect Winds ☽ ☉ ♃ with driſſling Rain, afterwards more temperate and ſeaſonable weather is expected for ſome time; but about the New ♂ ♄ ♀ Moon, ſome cold Rain is expected, with ſome brisk Gales about the 25th or 26th days, and at the end of the Month dry Winds. ♂ ☉ ♂

SEPTEMBER, 1690.

Saturn *sets between 7 and 8 at night.*
Jupiter *is South about Midnight.*
Mars *goeth to Combustion.*
Venus *sets about 7 at night.*
Mercury *emergeth from the Sun-beams, and sets after him.*

Engl. Accompt	For. Accompt.	Rom. Kalendar.	Rom. Saints da.						
1	11	b	Theobald	upper part of his body into	1	5	37	6	23
2	12	c	Tobias	a Goat, and the lower part	2		39		21
3	13	d	Amatus	into a Fish. *Jupiter* won-	3		41		19
4	14	e	Exalt. Cr	dring at his strange device,	4		43		17
5	15	f	Nicomed.	would needs have that I-	5		45		15
6	16	g	Euphem.	mage and Picture translated	6		47		13
7	17	[illegible]	17 p. Trin.	into Heaven, and made one	7	5	49		11
8	18	b	Feriolus	of the 12 Signs.	8		51	6	9
9	19	c	Januarius	*Aquarius*, the Water-man;	9		53		7
10	20	d	Fausta	it hath 42 Stars, whereof	10		55		5
11	21	e	S. Matthew	some make the Figure of	11		57		3
12	22	f	Maurice	the Man, other some the	12	5	59	6	1
13	23	g	Joel	Water-pot, and some the	13	6	1	5	59
14	24	[illegible]	18 p. Trin.	stream of Water that run-	14		3		57
15	25	b	Cleophas	neth out of the Pot; this is	15		5		55
16	26	c	Cyprian	feigned to be *Ganimedes* the	16		7		53
17	27	d	Judith	*Trojan*, the Son of *Oros* and	17		9		51
18	28	e	Wencesla	*Callirhoe*, whom *Jupiter* did	18		11		49
19	29	f	S. Michael	greatly love for his excel-	19		13		47
20	30	g	Jerome	lent favour and beauty, and	20	6	15	5	45
21	[illegible]	[illegible]	19 p. Trin.	by the service of the Eagle	21		17		43
22	2	b	Leodegar.	carried him up into Heaven,	22		19		41
23	3	c	Simplic.	where he made him his	23		21		39
24	4	d	Francisc.	Cup-bearer, and called him	24		23		37
25	5	e	Fides	*Aquarius*: others notwith-	25		25		35
26	6	f	Aurelia	standing think it to be *Deu-*	26		27		33
27	7	g	Spes	*calion*, the Son of *Prome-*	27		29		31
28	8	[illegible]	20 p. Trin.	*theus*, whom the Gods tran-	28	6	32	5	28
29	9	b	Dionysius	slated into Heaven, in re-	29		34		26
30	10	c	Gideon	membrance of that mighty	30		36	5	24

deluge

October hath xxxi. days.

Full Moon the 8 day, 30 min. past 3 in the morning.
Last Quarter the 14 day, at 9 at night.
New Moon the 22 day, 45 min. past 2 in the morning.
First Quarter the 30 day, at 6 in the morning.

1	a	☽ n. luc. in M. ♒	aqua.	1	11	20	Moons Setting.	Windy at the beginning, and about △ ♃ ♀ the 3d day Mists or drifling Rain; after ♂ ♄ ☿ wards Windy weather for some days. But after the Full Moon it is hoped we may have good seasonable weather, and that it may continue without much alteration till about the New Moon; then we may expect some Windy weather, with a cold and moist Air, and that for some days. Now more temperate; but is soon changed to windy and moist □ ♃ ♀ weather, which ends the Month.
2	b	☽ n. fin. Hu. ♒	aqua.	13	12	38		
3	c	☽ n. dex. Hu. ♒	aqua.	25	0 M	38		
4	d	☽ n. Ext. Ala. P.	pisces	7	2	0		
5	e	16 S. past Trin.	pisces	20	3	16		
6	f	☽ n. Algenib. P.	aries.	3	4	34		
7	g	☽ n. vent. Cet.	aries	17	6	0		
8	a	☽ n. luc. Cap. Ar.	taur.	1	Full			
9	b	☽ n. Cap. Medus.	taur.	15	5 A	20		
10	c	☽ n. Pleiades	taur.	29	5	50		
11	d	☽ n. Alhalot	gem.	13	6	30		
12	e	17 S. past Trin	gem.	28	7	18	Moons Rising.	
13	f	Sol in Scorp.	canc.	12	8	30		
14	g	☽ n. Pollux	canc.	26	10	0		
15	a	☽ n. Aus. in C. ♌	leo	10	11	28		
16	b	☽ n. Cor. leonis	leo	24	12	58		
17	c	♄ ♏ 19	virg.	8	0 M	58		
18	d	St. Luke	virg.	21	2	28		
19	e	18 S. past Trin.	libra	5	3	52		
20	f	♃ ♓ 28	libra	18	5	12		
21	g	♂ ♏ 2	scorp.	1	6	30		
22	a	♀ ♐ 23	scorp.	14	New			
23	b	Term begins	scorp.	27	4 A	44		
24	c	☿ ♏ 28 R.	sagit.	9	5	6		
25	d	Crispin	sagit.	21	5	42	☽'s Setting.	
26	e	19 S. past Trin.	capr.	3	6	40		
27	f	☽ n. Caud. Vult.	capr.	15	7	54		
28	g	St. Sim. & Jude	capr.	27	9	8		
29	a	☽ n. luc. Vult.	aqua.	9	10	22		
30	b	☽ n. fin. Hu. ♒	aqua.	21	11	7		♂ ♄ ☿
31	c	☽ n. Ext. Ala. P.	pisces	3	12	54		

OCTOBER, 1690.

Saturn *and* Mercury *set a little after the Sun.*
Jupiter *is South about* 10 *at night, and sets about* 4 *in the morning.*
Mars *remains in Combustion.*
Venus *sets betwixt* 6 *and* 7 *at night.*

Engl. Accompt	For. Accompt	Rom. Kalendar.	Rom. Saints da.						
1	11	d	Burchard	deluge that hapned in his	1	6	37	5	23
2	12	e	Walfride	time, whereby Mankind	2		39		21
3	13	f	Telemach	was almost utterly taken	3		41		19
4	14	g	Calixtus	from the face of the Earth.	4		43		17
5	15	♃	21 p. Trin	*Pisces*, the Fishes: these	5		45		13
6	16	b	Gallus	(with the Line that knit-	6		47		15
7	17	c	Florent	eth them together) con-	7		49		11
8	18	d	S. Luke	tain 24 Stars. The Poets	8	6	51	5	9
9	19	e	Ptolomy.	say, that *Venus* and *Cupid*	9		53		7
10	20	f	Wendelin	her Son, coming upon a	10		56		4
11	21	g	Ursula	certain time unto the Ri-	11		58		2
12	22	♃	22 p. Trin	ver *Euphrates*, and sitting	12	7	0	5	0
13	23	b	Severin	upon the Bank thereof,	13		2	4	58
14	24	c	Salome	upon a sudden espied *Ty-*	14		4		56
15	25	d	Crispin	*phon* the Giant, that mighty	15		6		54
16	26	e	Amandus	and fearful Enemy of the	16		8		52
17	27	f	Victoria	Gods coming towards	17		10		50
18	28	g	S.Si.& Jud	them; upon whose sight	18		12		48
19	29	♃	23 p. Trin	they being struck with ex-	19		14		46
20	30	b	Absalom	ceeding fear, leapt into the	20	7	16	5	44
21	31	c	Wolfgang	River, where they were re-	21		18		42
22	Nov.		All Saints	ceived by two Fishes, and	22		19		41
23	2	e	Om. Anim.	by them saved from drown-	23		21		39
24	3	f	Theophil.	ing; *Venus* for this good	24		23		37
25	4	g	Modestius	turn translated them into	25		25		35
26	5	♃	24 p. Trin	Heaven.	26		27		33
27	6	b	Leonard	*Via Lactea*, or *Circulus*	27		29		31
28	7	c	Willibald	*Lacteus*, by the Latins so	28		31		29
29	8	d	Claudius	called; and by the Greeks,	29	7	33	5	27
30	9	e	Theodore	*Galaxia*, and by the Eng-	30		35		25
31	10	f	Martin P.	lish	31		36		24

November, hath xxx. days.

Full Moon the 6 day, 30 min. past 2 in the afternoon.
Last Quarter the 13 day, at 6 in the morning.
New Moon the 20 day, at 7 at night.
First Quarter the 29 day, at 2 in the morning.

1	d	All Saints	pisces	15	0	M	54	☌ ☉ ☿ Windy
2	e	1 S. past Trin.	pisces	28	2		10	☌ ☉ ♄ and
3	f	☽ n. Cap. Andr.	aries	11	3		34	moist Air; and a-
4	g	☽ n. Pr. ✱ Aries	aries	25	5		0	bout the Full Moon
5	a	Gun Powd. Not.	taur.	9	6		22	expect cold, rough,
6	b	☽ n. Pleiades	taur.	23				turbulent and right
7	c	☽ n. Aldebaran	gem.	8	4	A	16	☌ ☉ ☿ win-
8	d	☽ n. dex. hu. Aur.	gem.	23	5		0	terly weather;
9	e	21 past Trinity	canc.	8	6		18	△ ☉ ♃ which
10	f	☽ n. Pollux	canc.	22	7		48	being past, 'tis
11	g	Martinmass	leo	7	9		18	hoped we may have
12	a	Sol in Sagitt.	leo	21	10		48	more temperate
13	b	☽ n. Luc. T. Leo.	virgo	5	12		15	weather, with some
14	c	☽ n. Cau. leonis	virg.	18	0	M	15	light Frosts and
15	d	☽ n. Vindemiatr.	libr.	2	1		40	moderate weather,
16	e	22 S. past Trin.	libr.	15	3		2	the Season being
17	f	♄ ♏ 22	libra	28	4		22	✱ ♂ ♀ consi-
18	g	♃ ♓ 28 D.	scorp.	10	5		40	dered. But cold
19	a	♂ ♏ 25	scorp.	23	6		52	☌ ♄ ♂ sharp
20	b	♀ ♑ 23	sagit.	5	New			Winds about the
21	c	☿ ♏ 20 D.	sagit.	17	3	A	45	New Moon are ex-
22	d	☽ n. sin. Man. D.	sagit.	29	4		21	pected with Snow
23	e	23 S. past Trin.	capr.	11	5		20	☌ ♄ ☿ or
24	f	☽ n. luc. Vult.	capr.	23	6		32	✱ ♃ ♀ Sleet
25	g	☽ n. luc. in M. ♒	aqua.	5	7		5	☌ ♂ ☿ △ ♃ ☿
26	a	☽ n. luc. in Ca ♑	aqua.	17	9		10	about this time,
27	b	☽ n. Ext. Ala. P.	aqua.	29	10		28	△ ♃ ♂ and
28	c	Term ends	pisces	11	11		41	✱ ♀ ☿ variable
29	d	☽ n. Caud. Cet.	pisces	23	12		54	weather to the
30	e	S. Andrew	aries	6	0	M	54	end.

☽'s Setting. | Moons Rising. | Moons Setting.

Saturn and Mercury at the beginning are Combust, towards the end they emerge from the Sun beams, and rise before the Sun. Jupiter is about 8 at night South, and sets about 2 in the morning. Mars goeth from Combustion, and riseth with Saturn and Mercury. Venus sets betwixt 7 and 8 at night.

Engl. Accompt.	For. Accompt	Rom. Kalendar.	Rom. Saints da.								
1	11	g	Martin Ep.	lish, the *Milky-way*. It is a	1	7	38	4	22
2	12			broad white Circle that is	2		39		21
3	13	b	Eugenia	seen in the Heavens in the	3		41		19
4	14	c	Frederick	North Hemisphere, it be-	4		43		17
5	15	d	Leopald	gineth at *Cancer*, on each	5		45		15
6	16	e	Otmarus	side the Head thereof, and	6		46		14
7	17	f	Hugo	passeth by *Auriga* by *Per-*	7		48		12
8	18	g	Hezechias	*seus* and *Cassiopeia*, the Swan	8		49		11
9	19			and the head of *Capricorn*,	9		51		9
10	20	b	Amos	the tail of *Scorpio*, and the	10	7	52	4	8
11	21	c	Obl. V. M.	feet of *Centaur*, *Argo* the	11		54		6
12	22	d	Cæcilia	Ship, and so to the head of	12		55		5
13	23	e	Clemens	*Cancer*: *Ovid* saith, that it is	13		57		3
14	24	f	Chrysog.	the great Causeway, and	14	7	58		2
15	25	g	Catherine	the High-way that leadeth	15	8	0	4	0
16	26			into the Palace of *Jupiter*;	16		1	3	59
17	27	b	Gunthernus	but he alledgeth not the	17		3		57
18	28	c	Rufus	cause of the whiteness:	18		4		56
19	29	d	Saturn. F.	belike, he would have y	19		6		54
20	30	e		imagine, that it is made of	20	8	7	3	53
21	D.	c.	Longinus	white Marble. Others there-	21		8		52
22	2	g	Cæcilius	fore alledge these causes;	22		9		51
23	3		Advent.	*Jupiter* having begotten	23		10		50
24	4	b	Barbara	*Mercury* of *Maia* the Daugh-	24		11		49
25	5	c	Sabina	ter of *Atlas*, brought the	25	8	12	3	48
26	6	d	Nicholaus	Child (when he was born)	26		13		47
27	7	e	Agathon	to the Breast of *Juno* lying	27		14		46
28	8	f	Conc. V. M.	asleep: But *Juno* awaking	28		15		45
29	9	g	Joachim	threw the Child out of her	29		15		46
30	10			Lap.	30	8	16	3	44

December hath xxxi. days.

☉ Full Moon the 6 day, 30 min. past 1 in the morning.
☾ Last Quarter the 12 day, at 6 at night.
☽ New Moon the 20 day, 40 min. past 2 in the afternoon.
☽ First Quarter the 28 day, at 6 at night.

1	f	☽ n. vent. Cet.	aries	19	2	A	12	☽ Setting	Some Hoar-frost
2	g	☽ n. Pr. ✱ Ariet.	taur.	3	3		40		at the beginning,
3	a	☽ n. Cap. Medus.	taur.	17	5		10		and about the 4th
4	b	☽ n. Aldebaran	gem.	1	6		40		or 5th days a brisk
5	c	☽ n. Alhaiot	gem.	17	8		6		sharp Air, yet sea-
6	d	☽ n. Syrius	canc.	2			☉		sonable weather;
7	☉	2 S. Advent	canc.	17	5	A	4		and in general this
8	f	☽ n. Aselli	leo	2	6		34		Month is expected
9	g	☽ n. Cor. leonis	leo	17	8		6		to be more mild
10	a	☽ n. luc. T. Leo	virg.	1	9		40		□ ☉ ♃ and
11	b	Sol in Caprice	virg.	15	11		8	Moons Rising.	temperate than the
12	c	☽ n. Vindemiat.	virg.	28	12		32		last, yet possibly
13	d	☽ n. Arista	libra	12	0	M	32		a brisk Air and
14	☉	3 S. Advent	libra	25	1		52		some Storms about
15	f	☽ n. luc. Coron.	scorp.	7	3		12		the sixteenth or
16	g	☽ n. laux. Bor.	scorp.	19	4		32		seventeenth days;
17	a	Ember Week	sagit.	2	5		48		and cold Winterly
18	b	♄ ♏ 26	sagit.	14	7		0		weather for some
19	c	♃ ♈ 0. 0	sagit.	26	8		0		□ ♃ ☿ days;
20	d	♂ ♐ 14	capr.	8		New	☉		and about the 24th
21	☉	St. Thomas	capr.	20	4	A	20		day you may ex-
22	f	♀ ♒ 19	aqua.	2	5		30		pect a misty foggy
23	g	☿ ♑ 7	aqua.	14	6		44		season, after which
24	a	☽ n. dex. hu. ♒	aqua.	26	8		0	Moons Setting.	some Windy wea-
25	b	Nat. Christ.	pisc.	8	9		15		ther is expected;
26	c	St. Stephen	pisc.	20	10		30		and at the end of
27	d	St. John	aries	2	11		45		the Month moisture
28	☉	Innocents	aries	15	1		4		therewith.
29	f	☽ n. Pr. ✱ Ariet.	aries	28	1	M	4		
30	g	☽ n. Man. Res.	taur.	11	2		30		✱ ♂ ♀
31	a	☽ n. Pleiades	taur.	25	3		56		

DECEMBER, 1690.

Saturn *at the beginning riseth betwixt 5 and 6 in the morning; at the end he riseth about 4 in the morn.* Jupiter *sets about 6 at night, and sets about midnight* Mars *riseth about Break of day.* Venus *sets betwixt 7 and 8 at night.* Mercury *at the beginning riseth before the Sun, at the end he is Combust.*

Engl. Accompt.	Eor. Accompt.	Rom. Kalendar.	Eom. Saint. da.						
1	11	b	Damasus	Lap, and let the Milk run	1	8	16	3	44
2	12	c	Valerius	out of her Breast in such a-	2		17		43
3	13	d	Lucia V.	bundance, that (spreading it	3		17		43
4	14	e	Nichasius	self about the Heaven) it	4		18		42
5	15	f	Abraham	made that Circle which we	5		18		42
6	16	g	Ananias	see. Others say, That it was	6		18		42
7	17	a	3 Advent	not *Mercury*, but *Hercules*;	7		18		42
8	18	b	Christoph.	and that *Juno* did not let	8		19		41
9	19	c	Loth	the Milk run out of her	9		19		41
10	20	d	Amon	Brest, but that *Hercules* suckt	10		19		41
11	21	e	St. Thoma	them so earnestly, that his	11	8	19	3	41
12	22	f	Theodose	Mouth run over, and so this	12		19		41
13	23	g	Dagobert	Circle was made. Others	13		19		41
14	24	a	4 Advent.	say, That *Saturn* being desi-	14		19		41
15	25	b	Christmas	rous to devour his Children,	15		18		42
16	26	c	St. Stephen	his Wife *Ops* presented him	16		18		42
17	27	d	St. John	with a Stone wrapt in a	17		18		42
18	28	e	Innocents	Clout instead of his Child.	18		18		42
19	29	f	Jonathan	This Stone stuck so fast in	19		17		43
20	30	g	David	*Saturn* his Throat, as he	20	8	17	3	43
21	31	a	Sylvester	would have swallowed it;	21		16		44
22			1691 Cir.	that without doubt he had	22		15		45
23	2	b	Abel	therewithal been choaked,	23		15		45
24	3	c	Enoch	had he not been relieved	24		14		46
25	4	d	Methusal.	by his Wife, who by pres-	25		13		47
26	5	e	Simeon	sing the Milk out of her	26		13		47
27	6	f	Epiphany	Breasts saved his life; the	27		12		48
28	7	g	S. past Ep.	Milk that missed his Mouth	28		11		49
29	8	a	Erhard	fell on the Heavens, and	29		10		50
30	9	b	Marcel	running along made this	30	8	9	3	51
31	10	c	Paul, Erem	Circle.	31		8		52

Table shewing how many Years purchase a Lease or Annuity to endure for any number of Years under 33. is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in Being, and the value of the Reversion after any number of Years.

Years of a Lease.	Years.	Months.	Tenth parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	3	5
6	4	11	0
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

The Use and Explanation of the TABLE.

The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, & right against each Year, is the Years, Months, & Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth.

EXAMPLE.

Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, & against the same you shall find, 8, 4, 6. which sheweth that such a Lease is worth eight Years, four Months, & six Tenth Parts of a Months Purchase.

Years of a Lease.	Years.	Months.	Tenth parts.
17	10	5	8
18	10	9	2
19	11	1	7
20	11	5	1
21	11	9	6
22	12	0	0
23	12	3	6
24	12	6	9
25	12	10	4
26	13	0	0
27	13	2	6
28	13	4	9
29	13	7	1
30	13	9	3
31	13	11	5
32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

This is useful, and very Easie.

SAUNDER, 1690.

The Second Part.

Containing the Eclipſes; the Suns Quarterly Ingreſſes, the Southing of the ſeven Stars for every 5th. day of this Year. With Rules and Tables for the meaſuring of Board, Glaſs, Pavements, or other Superficial Meaſure; as alſo to Meaſure Timber; And many other things worth Obſervation.

The Characters of the Twelve Signs.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquarius, ♓ Piſces.

The Characters of the Planets, with the Dragons Head and Tail.
♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aſpects.

☌ Conjunction, ⚹ Sextile, □ Quartile, △ Trine, ☍ Oppoſition.

A Brief Chronology of Memorable things, to this Year, 1690.

Since	The Creation of the World	5638
	Noahs Flood	3983
	The deſtruction of Sodom and Gomorrah	3592
	The deſtruction of Troy	2872
	Brute entred this Iſland	2797

Since

The Building of *London*	2797
The Building of *York*	2679
The Building of *Leiceſter*	2634
The Building of *Canterbury*	2582
The building of *Stamford*	2553
The building of *Rome*	2442
The deſtruction of *Jeruſalem* by *T. Veſ.*	1603
England firſt received the Chriſtian Faith	1510
The Tower of *London* built	1125
Duke *William* Conquered *England*	624
Weſtminſter-Hall was built	591
The Bible divided into Chapters	495
The Invention of Guns	312
The Art of Printing	250
St. *Pauls* Steeple fired by Lightening	129
New Star in *Caſſiopeia*	117
A great Snow fell *Feb.* 4.	112
Tilbury Camp on St. *James*'s day	102
A Plague in *London*, whereof dyed 30598	86
Gunpowder Treaſon, *November* 5.	85
A great Snow, and *Smithfield* paved	75
A great Plague in *London*, whereof dyed 35418	65
The Long Parliament began, *Nov.* 3.	50
King *Charles* the Firſt was Murdered	42
Two Comets appeared in *December* and *March*	26
The doleful Plague that followed them	25
London was burnt. *September* 2. 3, 4, 5,	24
The laſt great Snow	16
The wonderful Comet in *December*	10
A Comet in *Auguſt*	8
The terrible Fire in *Wapping*, *November* 19.	8
A great Earthquake, *October* the 6th.	7
The laſt great Froſt	6
The Rebellion in the *Weſt*	5

Of the Eclipſes this Year.

THere will be this Year Four Eclipſes to the Inhabitants of this Terraqueous Planet: *viz.* Two of the Sun, and two of the Moon; but there will be onely one of them viſible unto us, and that is of the Moon.

The

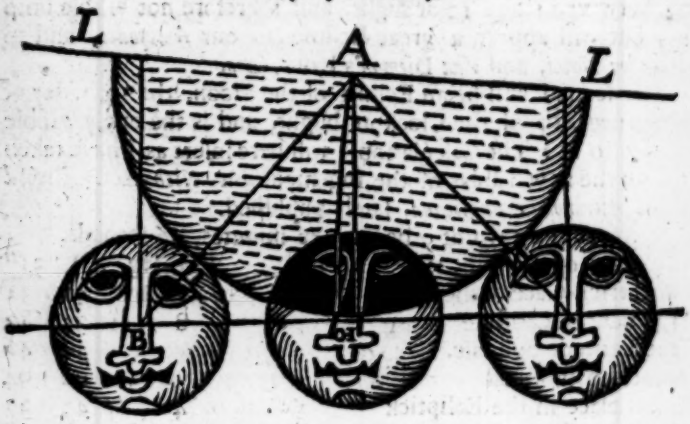
The first will be an Eclipse of the Sun the 28th. day of *February*, betwixt 11 and 12 at night, and therefore not visible unto us; but will appear a great Eclipse to our *Antipodes*, and to *Zelandia Nova*, and *Van Diemar*'s Land, *&c.*

The second will be an Eclipse of the Moon, the 14th. day of *March* near 10 of the Clock at Night, and is the onely visible Eclipse to us: The Calculation I will here insert as I have taken it from the new Tables of the Ingenious Mr. *Nicholas Greenwood* in his *Astronomia Anglicana*, lately published.

March the 14th. at 9 hours, 56 minutes, 56 seconds.

The place of the Sun, is	♈	4 deg.	47′	31″
Excentrick place of the Moon	♉	4	47	31
Argument of Latitude	6	8	35	43
True Latitude Sou. asc.			44	46
Reduction substract			02	04
Moons place in the Ecliptick	♉	4	45	27
Hourly motion of the Sun			02	28
Hourly Motion of the Moon			32	43
Hourly motion of the Moon from the Sun			30	15
Time of Reduction added			04	06
Correct time *March* the 14th.		10 ho.	01	02
Equation of time substract			02	32
Apparent time at London, at 9 hours			58	30
Difference of Meridians substract			04	00
Apparent time at *Leicester*, at 9 hours			54	30
Semi-diameter of the Moon			15	52
Semi-diameter of the Earths shadow			43	35
Sum of the semi-diameters			59	27
Moons Latitude substract			44	46
Rests, parts deficient			14	41
Digits Eclipsed are		5	33	09
Minutes of incidence			39	07
Time of incidence		1 hour	17	35
Total duration		2 hours	35	10
Interval of the Opposition, and greatest Obscuration			07	44
The Beginning at		8 hours	29	11
The middle of the Eclipse at		9	46	46
The end of the Eclipse at		11	04	21
Moons Latitude at the beginning		South ascend.	41	07
Moons Latitude at the end of the Eclipse			48	25

A Type of the Eclipſe.



In this Figure, the Semi-Circle L, M, N, L, repreſenteth part of the Earths ſhadow, A is the Center thereof, L, A, L, the Ecliptick, C B the way of the Moon A L, A m, or A n the Semi-diameter of the Earths ſhadow C n, or B m, the Semi-diameter of the Moon, A C, or A B, the ſum of the Semi-diameters, C the place of the Moon at the beginning of the Eclipſe entring the ſhadow at n, having then 41 minutes, 7 ſeconds of South-Latitude, repreſented by the Line L C, the diſtance of the lines A o, and A i, taken in the line C B, ſheweth the interval of the true Oppoſition and the greateſt Obſcuration, B the place of the Moon at the end of the Eclipſe, leaving the ſhadow at m, then having her South Latitude equal to L B, 48 minutes 25 ſeconds. The minutes of Incidence (being the ſpace that the Moon paſſeth from the beginning to the middle of the Eclipſe) are 39 min. 7 ſec. equal to the line C i, being half of the line C B: And the time that the Moon is paſſing thoſe minutes of Incidence is 1 h. 17 min. 35 ſec. which is the time of Incidence, the double whereof is 2 h. 35 min. 10 ſec. being the total duration of the Eclipſe.

The third Eclipſe will be of the Sun the 24 day of *Auguſt* about 1 in the morning, and therefore cannot be ſeen by us. But it will appear a great Eclipſe to our Periæci, and to ſuch as ſail upon the Northern part of that vaſt Ocean called *Mare Pacificum* or the *South Sea*, betwixt *California* and *Japan*, &c.

The fourth Eclipſe will be of the Moon the 8th. day of *September*

tember about 2 of the Clock in the Afternoon, and therefore not to be ſeen by us. But will be ſeen to our *Antipodes* and *Perieci*, and to the North-weſt parts of *America*, about *California*, &c. It is no great Eclipſe, being ſcarcely 5 digits Eclipſed.

As to the effects of Eclipſes, *Proclus* an Antient and an excellent Mathematician of his Time obſerves, That an Eclipſe of either Luminary happening in ♊, ♎ or ♒, portends Famine, great Sickneſs, Peſtilent Diſeaſes and the like: He alſo ſaith that an Eclipſe of the Moon, in ♎ *decem primis gradibus, grandines & fœdas alias tempeſtates provocat.* &c.

Of the Four Quarters of the Year, and firſt of the Spring,

THE Spring Quarter begins at ſuch time as the Earth enters the firſt point of *Libra*, the Sun then ſeeming to touch the Oppoſite point *Aries*, which either way conſidered doth commence this year in and about the Meridian of *Leiceſter*, on Monday the 10th. of *March*, 33 min. paſt 1 in the morning, or Aſtronomically the 9th. of *March* at 13 h. 36 m. 56 ſec. in the Meridian of *London*, according to Mr. *Greenwoods Aſtronomia Anglicana*.

The Calculation follows.

	ſ	0	′	″	
Longit. ☉ ab Equinox	00	00	00	00	
Præceſſion ſubſtract	00	28	47	21	
Longit. ☉ â ✳ ♈	11	01	12	39	
Anomalia ⊖ Media Correſpond.	08	20	50	15	
Anomal. to the year 1690. ſubſt.	06	13	15	24	
Remains	02	07	34	51	
Anomal. to *March* ſubſtr.	01	28	09	04	
Remains	00	09	25	47	
Anomal. to 9 days ſubſtr.	00	08	52	14	
Remains			33	33	
Anomal. to 13 hours ſubſtr.			32	02	
Remains			01	31	‴
Anomal. to 36 min. ſubſtr.			01	28	42
Remains			00	02	18
Anomal. to 56 ſeconds ſubſtr.				02	18
Remains	00	00	00	00	00

Now as the days and nights are of equal length, ſo is the temper of the Air; and it having loſt its Aſtrictions, the pores of the Earth are relaxed, and a vivifying fume evaporating, aſcendeth by the cold and chillified Roots of Herbs and Plants, and produceth their vegetable Life. The nature generally, of this Quarter is hot and moiſt, but ſometimes it proving otherwiſe, bringeth ſudden and ſtrange diſeaſes, and dangerous diſtempers. Such perſons as are naturally Melancholly do enjoy their Healths the beſt this Quarter; The Sanguine the contrary; Such diſeaſes as do proceed from exceſs and putrefaction of blood are moſt dangerous, but ſuch as have their Original from Melancholly are leſs hurtful. In *March* be not too buſie in purging or bleeding, but rather bathe and uſe ſuch meats or medicines as purge and ſweeten the blood. In *April* you may freely bleed, bathe, or purge if there be occaſion, but drink moderately, for exceſſive drinking is more dangerous now than at any time of the year; alſo forbear ſalt meats. In *May* you may purge gently the blood or body, or open a vein; to drink clarified Whey is good, but forbear Wine, and ſuch meats as are of a hot quality.

Of Summer.

ACcording to *Aſtronomia Anglicana*, this Quarter begins the 11th. day of *June*, 20 min. 42 ſeconds, after 4 of the Clock in the morning, the Sun then appearing at the Tropick of Cancer, maketh the longeſt day and ſhorteſt night to all the inhabitants on this ſide the Equator. The conſtitution of this Quarter is naturally hot and dry, ſympathizing with choler, perſons of Phlegmatick conſtitutions are beſt in health this quarter, the cholerick the contrary, antient people do now revive, but young people languiſh through the exceſs of blood and are thereby expoſed to Feavers, eſpecially the Tertian: In the month of *June* abſtain from ſuch meats as ingender raw, crude, and moiſt humours, now a cup of good White-wine taken faſting purges choler, and offenſive humours from the Stomach. It is now excellent good to riſe early, and to exerciſe the body with moderate walking. In *July* beware of bleeding or purging, unleſs there be great occaſion, beware alſo of eating ſuch meats as ingender melancholly, and of taking cold: In this and the next month refrain immoderate exerciſe and venery, and drink not much Wine, for now it dries the Stomach and Liver, and doth too much increaſe Choler,

Of

Of Autumn.

WHich doth begin this year upon the 12th. day of *September*, at 7 hours 24 min. 21 ſeconds afternoon, the Earth then entring Aries, or the Sun Libra, again making equal day and night to all the World, (except under the *Poles*). This Quarter naturally is cold and dry reſembling melancholy; youth is now lively; perſons of moiſt and phlegmatick conſtitutions are now beſt in health, the melancholy the contrary. In *September* eat moderately of all ſuch meats and fruits as your ſtomack deſires, for they are now in their vigour and perfection; in this month and next you may bleed or purge, if there be occaſion, but in *November* melancholy increaſeth, and blood decreaſeth, to vomit ſometimes may do well, but bathing is not now good, ſalt meats or powdered may now be eaten without any prejudice, roaſted meats and wild Fowl are now held to be very wholſome; in this quarter beware of taking cold.

Of Winter.

THis Quarter beginneth the 11th. day of *December*, at 7 hours 36 min. 56 ſeconds in the morning, the Sun appearing in the firſt ſcruple of the Tropical Sign Capricorn, maketh the ſhorteſt day, and longeſt night to all on this ſide the Equator: This quarter naturally is cold and moiſt, therefore young people and cholerick perſons are beſt in health, but aged and phlegmatick perſons the contrary. In *December* melancholy and phlegm do much increaſe, and it therefore behoves all perſons that prize their healths, to keep their heads and bodies well from cold, and to eat ſuch meats as be of a hot quality. 'Tis not now good to bleed or purge unleſs neceſſity urge, to drink Wine now and then, and to uſe good Spices in your Diet is very good, the ſame obſerve in *January*; but in *February* Confections candied with Hony; alſo Apples are very wholeſome, but all meats of a moiſt nature are now accounted hurtful, you may take pills to purge the Head, alſo bathe or take potions, and bleed now if there be occaſion.

To find the Riſing, ſouthing and ſetting of ſeveral fixed Stars hereafter mentioned.

IN the Tables following you have firſt the ſeven Stars Southing for every fifth day; in the ſecond Table is ſet the difference in Southing of thoſe Stars (therein named,) and the ſeven Stars, which being added to the time of the ſeven Stars Southing

giveth theirs. In the ſame Table is alſo ſet their ſemidiurnal Arches thereby to find the riſing and ſetting of the ſaid Stars. Suppoſe it is required to know what time the great Dog-ſtar called *Syrius* will be South the 11th. of *February*? I then find the Seven Stars South at 5 ho. 10 min. to which I add 3 ho. 2 min. the difference annexed to the great Dog Star, and it makes 8 ho. 12 min. being the time of its Southing the ſaid 11th. of *February*. If to the Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its ſetting at 12 ho. 43 min. but if you ſubſtract the Semi-diurnal Arch from the Southing it leaveth the time of its Riſing. The like may be done by any other of the ſaid Stars.

For the better diſtinction of the ſeveral ſizes of Stars they are divided into ſix ſeveral Magnitudes, The biggeſt and brighteſt Stars are called Stars of the firſt Magnitude. Thoſe one ſize inferiour in light, and bigneſs are called Stars of the ſecond Magnitude, &c. Now for the better knowing the Stars hereafter mentioned, Note, that the great Dog-ſtar, Lions Heart, Virgins Spike, and the bright ſtar of *Lyra*, are accounted ſtars of the firſt magnitude, ſo are alſo *Aldebaran* and *Arcturus*, but they are Red ſtars, much of the colour of *Mars*, all the reſt in the Table are of the ſecond magnitude, except the Northern and Southern *Aſſ*, which are ſmall Stars being of the fourth Magnitude.

A Table ſhewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1689.

Moneths	Dayes of the Moneth. 1		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32	6	A 12
February	5	A 49	5	29	5	10	4	51	4	32	4	14
March	4	A 0	3	41	3	23	3	4	2	46	2	28
April	2	A 7	1	48	1	30	1	11	0	52	0	32
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53	10	M 33
June	10	M 8	9	47	9	26	9	6	8	45	8	25
July	8	M 5	7	45	7	24	7	4	6	45	6	25
Auguſt	6	M 3	5	45	5	26	5	8	4	49	4	31
September	4	M 10	3	52	3	34	3	17	3	0	2	41
October	2	M 22	2	3	1	44	1	25	1	5	0	46
November	0	M 22	0	2	11	A 39	11	A 16	10	A 54	10	32
December	10	A 11	9	A 49	9	26	9	4	8	41	8	20

A Table ſhewing the difference in hours and minutes between the coming to ſouth of ſeveral fixed ſtars, and the ſeven ſtars, as alſo their ſemi-diurnal Arches thereby to find their riſing and ſetting.

Names of the Stars.	*Diff. ſouth.*	*Semid. Arches*	*Names of the Stars.*	*Diff. ſouth.*	*Semid. Arches*
	h. m.	*h. m.*		*h. m.*	*h. m.*
Aldebaran B.eye	0 49	7 28	Lions heart, Baſil.	6 23	7 13
2d.in Orions Girdle	1 51	5 54	Virgins Spike	9 40	5 9
Gr. Dog. Syrius	3 2	4 31	Arcturus	10 32	8 0
Caſtor 1ſt.head ♊	3 46	9 47	South ballance	11 5	4 40
Lit.Dog.Procyon ♋	3 54	6 32	North ballance	11 31	5 16
Pollux,2d.head ♊	3 57	9 4	Northern Crown	11 52	8 55
Northern Aſſ.	4 56	8 12	bright ✳ Lyræ	14 57	*ſets not*
Southern Aſſ.	4 58	7 49	bright ✳ Vulturis	16 6	6 42

Here followeth ſome few Rules, and Tables, for the menſuration of Superficies and Solids.

FOr the Menſuration of ſuperficial or flat meaſures, ſuch as Board, Glaſs, Pavement, Hangings, &c. it will be neceſſary to know how to meaſure any plain ſuperficial figure, as the Square, Long-ſquare, or Parellelogram, Triangle, Circle, parts of the Circle, *&c.* examples of all which do here follow.

I. *How to meaſure a Square.*

Let there be a ſquare floor, or pavement, the ſides whereof are each of them 5 feet 6 inches, and 'tis required to know how many ſquare, or ſuperficial feet are contained therein. Firſt (a good plain way to avoid Fractions will be to) Reduce the whole ſide into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the ſuperficial content in inches; then divide 4356 by 144 (the ſquare inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; ſo that in ſuch a ſquare is contained 30 feet and one quarter. See the Margin.

66
66
396
396
4356
4356
144
(30
432
36

II. *To*

II. *To measure the Long-square or Parallelogram.*

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Measure a Long Superficies, which is broader at one end than at the other.*

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

72
42
144
288
3024
144
288 (21
144

IV. *How to Measure Triangles.*

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All *Trapezias*, or figures with four unequal sides; also Multangular, or many sided irregular figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the Content of such irregular figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. *How to Measure Circles, and parts of Circles.*

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore

the

the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the Circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22. and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter 19 $\frac{7}{22}$ the half whereof is $9\frac{13}{22}$, by which multiplying 30, the product will be $286\frac{4}{11}$ which is the ſuperficial content of ſuch a Circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare the Diameter, multiply the ſquare by 11, and divide the product by 14, the Quotient is the ſuperficial content of the circle.

Let the Diameter be as above $19\frac{1}{11}$ the ſquare whereof is $364\frac{56}{121}$ this multiplied by 11 produceth $4009\frac{7}{11}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the ſuperficial content of ſuch a circle.

To meaſure the ſuperficial content of half the circle, the quarter of a circle, or of any other ſection of a circle, more or leſs, having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of the circle, ſo ſhall you have the content.

Of the Menſuration of Solids.

AS Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſures conſiſteth of three dimenſions, namely, length, breadth and thickneſs.

To meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multi-

plyed

plyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other ſolid matter) whoſe breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many ſolid feet are contained therein. Firſt, multiply the breadth 18 by the depth 13, the product is 234, being the ſuperficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the ſolid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one ſolid foot) and the quotient will be 19, and 396 inches remaining, which is 19 ſolid feet, and almoſt one quarter of a foot, and ſo much is the ſolid content of ſuch a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whoſe compaſs is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the ſolid content thereof. Firſt, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, ſo ſhall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying $\frac{1}{2}$ the circumference by $\frac{1}{2}$ the Diameter; or by (ſquaring, or) multiplying the Diameter in it ſelf, and multiplying that ſquare by 11, and dividing the product by 14, the ſuperficial content of the end of ſuch a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and $39\frac{3}{11}$ inch. remaining, which is the ſolid content of ſuch a piece of Timber. But had this piece of Timber been meaſured by that egregiouſly falſe way of taking $\frac{1}{4}$ part of the Girt for the ſide of the ſquare equal, it would have been found to be but 31 feet and $\frac{1}{2}$ of a foot, which is above $\frac{1}{5}$ part leſs than the truth, it being 39 feet, & above $\frac{3}{4}$

In behalf of that erroneous way many do plead, that in round Timber there is great loſs in chipping to bring it near a ſquare, therefore that way may be allowed; but this is very unequal: in great Timber there being little loſs, in ſmall Timber much, let therefore the quality be conſidered, rather than make ſuch unequal amends by a falſe quantity.

Of the Menſuration of Tapering Timber, either round or ſquared, ſuch as Fruſtums of Cones and Pyramids.

FIrſt find the ſuperficial Area of each end of the piece, and multiplie the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed in it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be $731\frac{1}{2}$. Lastly, multiply $731\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44 hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, If 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone; now the superficial

content

content of the Base of this Cone, (being 346½ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 26 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot.	
Inch.	Inc.	Inc.	10th.	Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	26	1	3

A Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com. Inch.	len. of a foot Inch.	100 p
11	179	46
12	150	80
13	128	49
14	110	79
15	94	31
16	84	82
17	75	14
18	67	02
19	60	15
20	54	29
21	49	23
22	44	86
23	40	90
24	37	69
25	34	74
26	32	12
27	29	79
28	27	70
29	25	82
30	24	13
31	22	60
32	21	21
33	19	92
34	18	78
35	17	74
36	16	76
37	15	86
38	15	04
39	14	28
40	13	57

Com. Inch.	len. of a foot Inch.	100 p.
41	12	92
42	12	31
43	11	74
44	11	31
45	10	72
46	10	26
47	9	83
48	9	42
49	9	04
50	8	69
51	8	35
52	8	03
53	7	73
54	7	42
55	7	18
56	6	92
57	6	68
58	6	45
59	6	24
60	6	03
61	5	84
62	5	65
63	5	47
64	5	30
65	5	14
66	4	98
67	4	84
68	4	70
69	4	56
70	4	43

Com. Inch.	len. of a foot Inch.	100 p.
71	4	31
72	4	20
73	4	08
74	3	97
75	3	86
76	3	76
77	3	66
78	3	57
79	3	48
80	3	39
81	3	31
82	3	23
83	3	15
84	3	08
85	3	01
86	2	94
87	2	87
88	2	80
89	2	74
90	2	68
91	2	62
92	2	57
93	2	51
94	2	46
95	2	41
96	2	36
97	2	31
98	2	26
99	2	22
100	2	17

Ad-

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WEather Glaſſes alſo are prepared and carefully adjuſted by the Author, for any that have a deſire to have them.

From Oulton in Com. Leiceſter,
Auguſt the 31th. 1689.

FINIS.